Docket No: ACY33317-D1

Patent

Mail Stop Patent Application Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement accompanies the new patent application submitted herewith of the following Inventors: Rasappa G. ARUMUGHAM, Maria FORTUNANEVIN, Michael A. APICELLA, Bradford W. GIBSON;

For: ANTIGENIC CONJUGATES OF CONSERVED LIPOPOLYSACCHARIDES OF GRAM NEGATIVE BACTERIA.

1. Preliminary Statements

In accordance with 37 CFR 1.97 and 1.98, Applicants submit herewith patents, publications, or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) the information is material to the examination of this application does not exist; (iv) the information, protocols, results and the like reported by third parties are accurate or enabling; or (v) the information constitutes prior art to the subject invention.

2. Previously Cited Information

No copy of the patents, publications or other information cited on the attached form PTO-1449 is enclosed because it has been previously cited by or submitted to the Office in a prior application which is relied upon for an earlier filing date under 35 USC 120. Prior application is Application Number 09/264,747 filed on March 9, 1999of Rasappa G. ARUMUGHAM, Maria FORTUNA-NEVIN, Michael A. APICELLA, Bradford W. GIBSON for ANTIGENIC CONJUGATES OF CONSERVED LIPOPOLYSACCHARIDES OF GRAM NEGATIVE BACTERIA.

CERTIFICATE OF MAILING 37 CFR §1.10

I hereby certify that this paper and the documents referred to as enclosed therein are being deposited with the United States Postal Service on the date written below in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV243963130US addressed to the Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Carole K. Kamrad

Docket No: ACY33317-D1

Patent

3.	Newly Cited Information A legible copy of the patents, publicat form PTO-1449 is enclosed, except the enclosed.	tions or other information cited on the attached lat no copy of a pending U.S. application is
4.	Concise Explanation Documents cited above which are not a. have been explained in the s b. have an abstract (or other correadily available, a translation	
5.	Form PTO-1449 is enclosed in duplicate.	BUL 7- Bung Bill T. Brazil Agent for Applicants

Reg. No. 50,733

Wyeth Patent Law Department Five Giralda Farms Madison, NJ 07940 Tel. No. (732) 274-4843

Substitute for form 1449/PTO					Complete if Known			
					Application Number			
	NFORMATION DIS	CLOSURE			Filing Date			
STATEMENT BY APPLICANT					First Named Inventor	Rasappa Arumugham		
(110	on many chapte a	e necessar	v۱		Group Art Unit			
(use as many sheets as necessary)					Examiner Name		·	
Sheet	1	of	1		Attorney Docket Number	ACY33317-D1		

				U.S. PATENT DOCU	MENTS		
Examiner Initials*	Cite No.	U.S. Patent Document Number Kind Code (If known) (If Known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	1.	4,707,543		Zollinger et al.	11-1987		
	2.	4,929,604		Munford et al.	05-1990		
	3.	4,912,094		Myers et al.	03-1990		
	4.	6,207,157		Gu et al.	03-27-2001		

			FO	REIGN F	PATENT DOCUMENTS			
Examiner	Cite No.	Foreign Patent Document			Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Initials*		Office	Number	Kind Code (If Known)	Applicant of Cited document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	<u>'</u>
	5.	wo	9,719,688		Apicella et al.	06-05-1997		
	6.	wo	94/08021		Van Der Ley et al.	04-14-1994		1

		THE PARTY OF THE P	
		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
	7.	Preston, A. et al., Critical Reviews in Microbiology, 22:(3):139-180 (1996)	
	8.	Phillips, N. J. et al., Biochemistry, 31:4515-4526 (1992)	
	9.	John C. M. et al., J. Biol. Chem., 266:19303-19311 (1991)	
	10.	Kniskern, P. J. et al., Vaccine Design, Chapter 30:673-694 (1995)	
	11.	Eby, R., Vaccine Design., Chapter 31:695-718 (1995)	
	12.	Jennings, H. J. et al., Infect. Immun., 43(1):407-412 (1984)	
	13.	(4.44) 407 406 (4000)	
	14.	Verheul, A. F. M. et al., Infect. Immun., 59(3) 843-851 (1991)	
	15.	Gu, X-X. et al., Infect. Immun., 61(5):1873-1880 (1993)	
	16.	Bhattacharjee, A. K. et al., J. Infect. Dis., 173:1157-1163 (1996)	
	17.	Gu. X-X. et al., Infect. Immun., 64 (10) 4047-4053 (1996)	
	18.	Tomita, G.M., Immunization of dairy cows against coliform mastitis. Dissertation. The Ohio University,	
		pp. 1-109 (1994)	
	19.	Jachymek W., Postepy Hig. Med. Dosw. 49:171-178, abstract (1995)	
	20.	Gupta et al., Infect. Immun., 60:3201-3208 (1992)	
	21.	Lugowski et al., J. Immunol. Methods 95:187-194 (1986)	
	22.	Tomita et al., J. Diary Sci., 78:2178-2185 (1995)	
	23.	Tomita et al., J. Diary Sci., 76:Suppl.1, abstract P36G (1993)	
	24.	Lugowski et al., FEMS Immunol. Med. Microbiol., 16:21-30, (1996)	
	25.	Mironova et al., Zh. Mikrobiol. Epidemiol. Immunobiol., 4:58-62 (1988)	
	26.	Hill et al., J. Med. Microbiol., 21:25-33 (1986)	
		Lees et al., Infect. Immun., 63:2508-2516 (1995)	
	28.	McLaughlin et al., J. Bacteriol., 174:6455-6459 (1992)	
	29.	Lindberg et al., In: New Approaches to Stabilization of Vaccine Potency. (Ed) Brown F. Dev. Biol. Basel, Karger, 87:59-71 (1996)	
	30.	Lambden et al., J. Immunol. Methods, 48:233-240 (1982)	
	31.	Green et al., Vaccines 94, (Ed) Norrby et al. Cold Spring Harbor Laboratory Press, pp. 125-129 (1994)	
	32.	Tyler et al., J. Vet. Intern. Med. 4:17-25 (1990)	
	33.	Campnagari et al., Microbial Pathogenesis, 8(5):353-362, abstract (1990)	
	34.	Tyler et al., Am. J. Vet. Res., 49(11):1950-1954 (1988)	
	35.	Davis et al., J. Exp. Med., 147 (4):1007-1017 (1978)	
	36.	Zeigler et al., New Eng. J. Med., 307:1225-1230 (1982)	L_

Examiner	Date	
Signature	Considered	
8		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.